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1 Chimera: hypermedia for heterogeneous software development environments

Kenneth M. Anderson, Richard N. Taylor, E. James Whitehead, Jr.

 July 2000 **Transactions on Information Systems (TOIS)**, Volume 18 Issue 3
Publisher: ACM

Full text available: Pdf (864.32 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [in terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 62, Citation Count: 22

Emerging software development environments are characterized by heterogeneity: they are composed of diverse object stores, user interfaces, and tools. This paper presents an approach for providing hypermedia services in this heterogeneous setting. Central ...

Keywords: heterogeneous hypermedia, hypermedia system architectures, link servers, open hypermedia systems, software development environments

2 BlueBoX: A policy-driven, host-based intrusion detection system

Suresh N. Chari, Pau-Chen Cheng

 May 2003 **Transactions on Information and System Security (TISSEC)**, Volume 6 Issue 2
Publisher: ACM

Full text available: Pdf (385.64 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [in terms](#)

Bibliometrics: Downloads (6 Weeks): 26, Downloads (12 Months): 215, Citation Count: 4

Detecting attacks against systems has, in practice, largely been delegated to sensors such as network intrusion detection systems. However, due to the inherent limitations of these systems and the increasing use of encryption in communication, intrusion ...

Keywords: Intrusion detection, policy, sandboxing, system call introspection

3 DiscoTec: A System for Discovering Architectures from Running Systems

Hong Yan, David Garlan, Bradley Schmerl, Jonathan Aldrich, Rick Kazman

May 2004 **ICSE '04: Proceedings of the 26th International Conference on Software Engineering**

Publisher: IEEE Computer Society

Full text available: Pdf (268.62 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [in terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 26, Citation Count: 9

One of the challenging problems for software developers is guaranteeing that a system built is consistent with its architectural design. In this paper we describe a technique that uses run time observations about an executing system to construct an architectural ...

 **BEAT: the Behavior Expression Animation Toolkit**

[Justine Cassell, Hannes Högni Vilhjálmsson, Timothy Bickmore](#)

August 2001 **SIGGRAPH '01**: Proceedings of the 28th annual conference on Computer graphics and interactive techniques

Publisher: ACM

Full text available:  [Pdf \(158.86 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [in terms](#)

Bibliometrics: Downloads (6 Weeks): 26, Downloads (12 Months): 138, Citation Count: 57

The Behavior Expression Animation Toolkit (BEAT) allows animators to input typed text that they wish to be spoken by an animated human figure, and to obtain as output appropriate and synchronized nonverbal behaviors and synthesized speech in a form that ...

Keywords: animation systems, facial animation, gesture, speech synthesis

5 Achieving extensibility through product-lines and domain-specific languages: a case study

 [Don Batory, Clay Johnson, Bob MacDonald, Dale von Heeder](#)

April 2002 **Transactions on Software Engineering and Methodology (TOSEM)** , Volume 11, Issue 2

Publisher: ACM

Full text available:  [Pdf \(324.37 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [in terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 132, Citation Count: 13

This is a case study in the use of *product-line architectures (PLAs)* and *domain-specific languages (DSLs)* to design an extensible command-and-control simulator for Army f support. The reusable components of our PLA are layers or "aspects" ...

Keywords: GenVoca, aspects, domain-specific languages, refinements, simulation

6 VXT: a visual approach to XML transformations

 [Emmanuel Pietriga, Jean-Yves Léon-Dury, Vincent Quint](#)

November 2001 **DocEng '01**: Proceedings of the 2001 ACM Symposium on Document engineering

Publisher: ACM

Full text available:  [Pdf \(165.99 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [in terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 55, Citation Count: 12

The domain of XML transformations is becoming more and more important as a result of the increasing number of applications adopting XML as their format for data exchange and representation. Most of the existing solutions for expressing XML transformations ...

Keywords: XML transformations, XSLT, circus, visual programming languages, zoom user interfaces

7 An integrated approach to engineer and enforce context constraints in RBAC environments

 [Mark Strembeck, Gustaf Neumann](#)

August 2004 **Transactions on Information and System Security (TISSEC)** , Volume 7

3

Publisher: ACM

Full text available:

Additional Information:

 Pdf (3.06 MB)

full citation, abstract, references, index term

Bibliometrics: Downloads (6 Weeks): 26, Downloads (12 Months): 173, Citation Count: 4

We present an approach that uses special purpose role-based access control (RBAC) constraints to base certain access control decisions on context information. In our approach a *context constraint* is defined as a dynamic RBAC constraint that checks ..

Keywords: Context-dependent access control, constraints engineering, context constraints, role-based access control

8 A distributed memory unstructured gauss-seidel algorithm for multigrid smoother

Mark F. Adams

 November 2001 **Supercomputing '01**: Proceedings of the 2001 ACM/IEEE conference on Supercomputing (CDROM)**Publisher:** ACM

Full text available: Pdf (1.08 MB)

Additional Information: full citation, abstract, references, cited by, in terms

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 21, Citation Count: 4

Gauss-Seidel is a popular multigrid smoother as it is provably optimal on structured grids and exhibits superior performance on unstructured grids. Gauss-Seidel is not used to knowledge on distributed memory machines as it is not obvious how to parallelize ...

Keywords: algebraic multigrid, parallel gauss-seidel, parallel graph algorithms, unstructured multigrid

9 Sheepdog: learning procedures for technical support

Tessa Lau, Lawrence Bergman, Vittorio Castelli, Daniel Oblinger

 January 2004 **IUI '04**: Proceedings of the 9th international conference on Intelligent user interfaces**Publisher:** ACM

Full text available: Pdf (186.35 KB)

Additional Information: full citation, abstract, references, cited by, in terms

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 28, Citation Count: 10

Technical support procedures are typically very complex. Users often have trouble following printed instructions describing how to perform these procedures, and these instructions are difficult for support personnel to author clearly. Our goal is to ...

Keywords: alignment, hidden Markov models, machine learning, programming by demonstration, user study

10 Temporal sequence learning and data reduction for anomaly detection

Terran Lane, Carla E. Brodley

 August 1999 **Transactions on Information and System Security (TISSEC)**, Volume 2

3

Publisher: ACM

Full text available: Pdf (628.31 KB)

Additional Information: full citation, abstract, references, cited by, in terms

Bibliometrics: Downloads (6 Weeks): 27, Downloads (12 Months): 289, Citation Count: 32

The anomaly-detection problem can be formulated as one of learning to characterize behaviors of an individual, system, or network in terms of temporal sequences of discrete data. We present an approach on the basis of instance-based learning (IBL) ...

Keywords: anomaly detection, clustering, data reduction, empirical evaluation, instance-based learning, machine learning, user profiling

11 The building blocks for specifying communication behavior of complex objects: a

◆ activity-driven approach

Ling Liu, Robert Meersman

June 1996 **Transactions on Database Systems (TODS)**, Volume 21 Issue 2

Publisher: ACM

Full text available:  [Pdf \(699.84 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [in terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 46, Citation Count: 6

Communication behavior represents dynamic evolution and cooperation of a group of objects in accomplishing a task. It is an important feature in object-oriented systems . propose the concept of activity as a basic building block for declarative specification .

Keywords: activity aggregation, activity patterns, activity specialization, communication behavior, first-order temporal logic, object-oriented databases, synchronization schemes

12 Typing abstractions and management in a component framework

◆ Frederic J. Doucet, Sandeep K. Shukla, Rajesh K. Gupta

January 2003 **ASPDAC: Proceedings of the 2003 conference on Asia South Pacific design automation**

Publisher: ACM

Full text available:  [Pdf \(122.14 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 8, Citation Count: 6

We consider the type inference problems in a compositional design environment where the components are automatically instantiated from pre-existing C++-based intellectual property (IP) libraries. We present a component integration language based on scripting ...

13 Differential expression, class discovery and class prediction using S-PLUS and

◆ S+ArrayAnalyzer

Michael O'Connell

December 2003 **SI GKDD Explorations Newsletter**, Volume 5 Issue 2

Publisher: ACM

Full text available:  [Pdf \(958.46 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 35, Citation Count: 0

Microarrays are a powerful experimental platform, allowing simultaneous studies of gene expression for thousands of genes under different experimental conditions. However there is much biological variability induced throughout the experimental process ...

Keywords: S+ ArrayAnalyzer, S-PLUS, class discovery, class prediction, differential expression

14 Flexible control of downloaded executable content

◆ Trent Jaeger, Atul Prakash, Jochen Liedtke, Nayeem Islam

May 1999 **Transactions on Information and System Security (TISSEC)**, Volume 2 Issue 1

Publisher: ACM

Full text available:  [Pdf \(297.79 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [in terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 88, Citation Count: 9

We present a security architecture that enables system and application access control requirements to be enforced on applications composed from downloaded executable content. Downloaded executable content consists of messages downloaded from remote ...

Keywords: access control models, authentication, authorization mechanisms, collaboration systems, role-based access control

15 Shape-based retrieval and analysis of 3D models

 Thomas Funkhouser, Michael Kazhdan

August 2004 **SIGGRAPH '04:** SIGGRAPH 2004 Course Notes

Publisher: ACM

Full text available:  Pdf (12.56 MB) Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 77, Downloads (12 Months): 687, Citation Count: 0

Large repositories of 3D data are rapidly becoming available in several fields, including mechanical CAD, molecular biology, and computer graphics. As the number of 3D models grows, there is an increasing need for computer algorithms to help people find ...

16 Synthesis of concurrent systems with many similar processes

 Paul C. Attie, E. Allen Emerson

January 1998 **Transactions on Programming Languages and Systems (TOPLAS)**, Volume 20 Issue 1

Publisher: ACM

Full text available:  Pdf (1.05 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [in terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 37, Citation Count: 7

Methods for synthesizing concurrent programs from temporal logic specifications based on the use of a decision procedure for testing temporal satisfiability have been proposed by Emerson and Clarke and by Manna and Wolper. An important advantage of these ...

Keywords: concurrent programs, program synthesis, temporal logic

17 Stateful distributed interposition

 John Reumann, Kang G. Shin

February 2004 **Transactions on Computer Systems (TOCS)**, Volume 22 Issue 1

Publisher: ACM

Full text available:  Pdf (833.84 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [in terms](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 80, Citation Count: 2

Interposition-based system enhancements for multitiered servers are difficult to build because important system context is typically lost at application and machine boundaries. For example, resource quotas and user identities do not propagate easily ...

Keywords: Distributed computing, component services, distributed context, multitiered systems, operating systems, server consolidation

18 The unreal editor as a Web 3D authoring environment

 David Arendash

April 2004 **Web3D '04:** Proceedings of the ninth international conference on 3D Web

technology
Publisher: ACM

Full text available: [PDF \(638.49 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [in terms](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 73, Citation Count: 2

Epic Games provides a free game level editor with titles based on its Unreal engine. The editor provides a rich set of authoring tools that can be used to create fully interactive environments. This paper describes a tool that converts Unreal levels ...

Keywords: 3D, Unreal, VRML, X3D, authoring, game, tool

19 [Intrusion detection techniques for mobile wireless networks](#)

Yongguang Zhang, Wenke Lee, Yi-An Huang

September 2003 **Wireless Networks**, Volume 9 Issue 5

Publisher: Kluwer Academic Publishers

Full text available: [PDF \(164.73 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [in terms](#)

Bibliometrics: Downloads (6 Weeks): 50, Downloads (12 Months): 493, Citation Count: 21

The rapid proliferation of wireless networks and mobile computing applications has changed the landscape of network security. The traditional way of protecting network with firewalls and encryption software is no longer sufficient and effective. We ...

Keywords: anomaly detection, cooperative detection, intrusion detection, intrusion response, mobile ad-hoc networks

20 [Flow equations as a generic programming tool for manipulation of attributed graphs](#)

 John Fiskio-Lasseter, Michal Young

January 2003 **PASTE '02: Proceedings of the 2002 ACM SIGPLAN-SIGSOFT workshop on Program analysis for software tools and engineering**

Publisher: ACM

Full text available: [PDF \(143.27 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [in terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 28, Citation Count: 1

The past three decades have seen the creation of several tools that extract, visualize and manipulate graph-structured representations of program information. To facilitate interconnection and exchange of information between these tools, and to support ...

Also published in:

January 2003 **SIGSOFT Software Engineering Notes** Volume 28 Issue 1

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